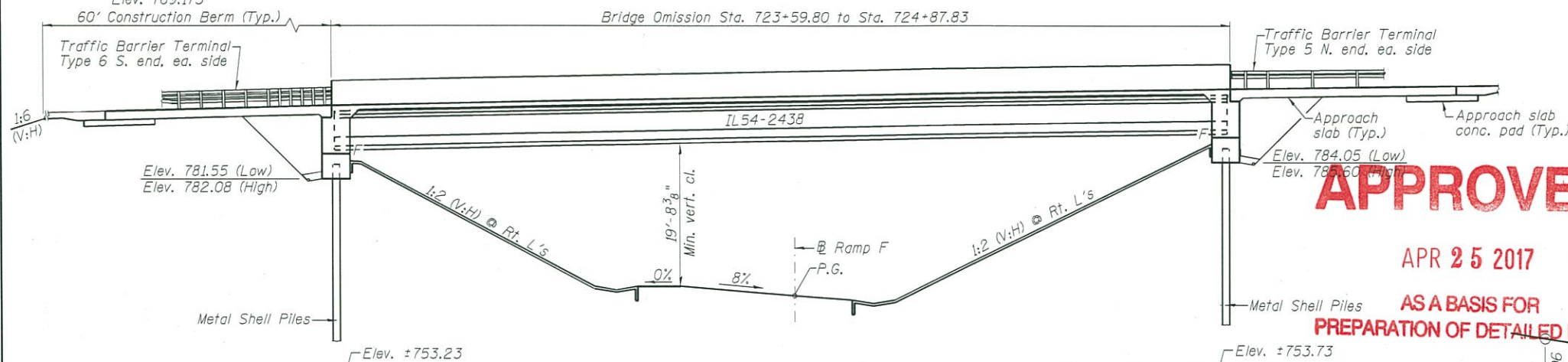


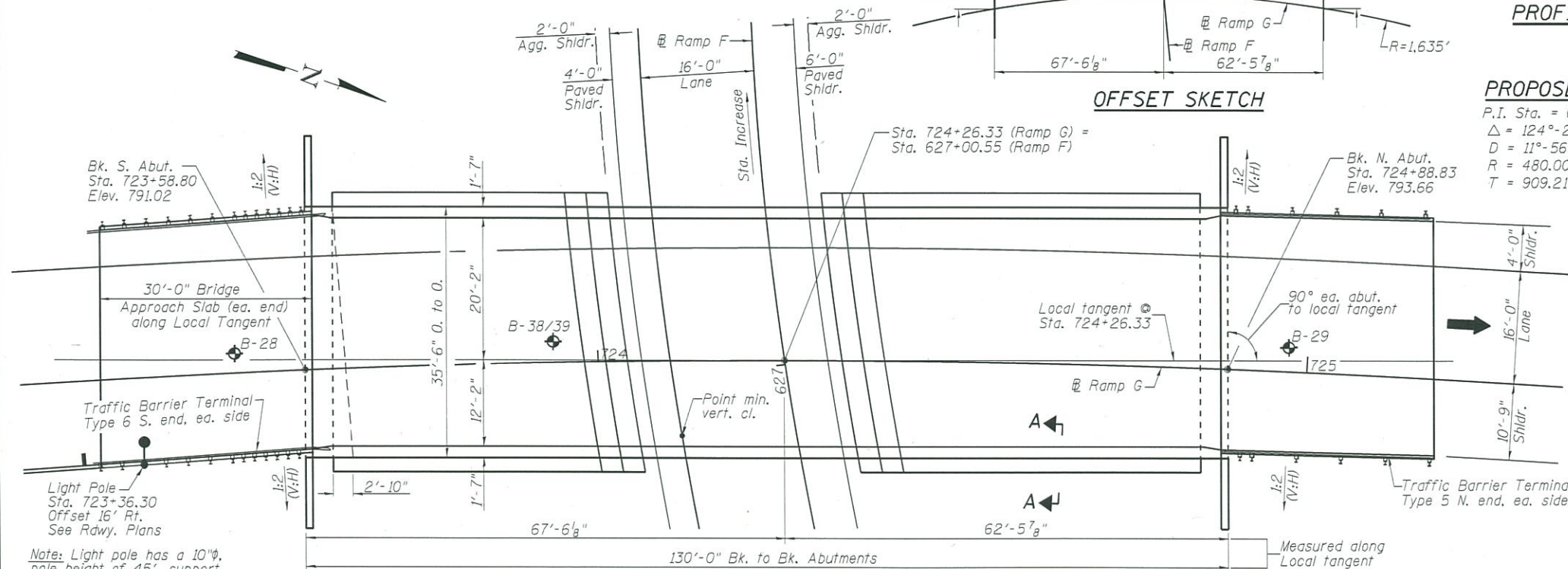
Bench Mark: Chiseled "□" on top of N.W. corner of light pole foundation #50-107 on Ramp DB, Sta. 1068+46.46 Elev. 769.173

Existing Structure: None No Salvage



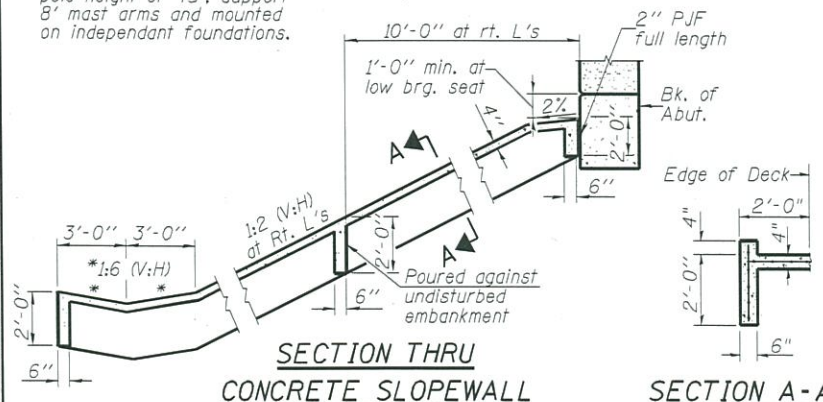
**ELEVATION**

Note: Up to 1/4" may be ground off the bridge deck and the bridge approach slab.



**OFFSET SKETCH**

Note: Light pole has a 10" dia. pole height of 45', support 8' mast arms and mounted on independent foundations.



**SECTION THRU CONCRETE SLOPEWALL**

**SECTION A-A**

**LOADING HL-93**

Allow 50 psf for future wearing surface

**DESIGN SPECIFICATIONS**

2014 AASHTO LRFD Bridge Specifications, 7th Edition w/2015 & 2016 Interims

**HIGHWAY CLASSIFICATION**

FAI 57/74 -Ramp F  
Functional Class: Interstate Ramp  
ADT: 3,300 (2013); 4,950 (2040)  
ADTT: 901 (2013); 1,351 (2040)  
DHW: 360  
Design Speed: 40 m.p.h.  
Posted Speed: 40 m.p.h.  
One-Way Traffic  
Directional Distribution: 100% NB

FAI 57/74 -Ramp G  
Functional Class: Interstate Ramp  
ADT: 2,100 (2013); 2,650 (2040)  
ADTT: 365 (2013); 461 (2040)  
DHW: 235  
Design Speed: 55 m.p.h.  
Posted Speed: 55 m.p.h.  
One-Way Traffic  
Directional Distribution: 100% WB

**DESIGN STRESSES**

**FIELD UNITS**  
f'c = 3,500 psi (Cast-in-Place)  
f'c = 4,000 psi (Superstructure Concrete)  
fy = 60,000 psi (Reinforcement)

**PRECAST PRESTRESSED UNITS**  
f'c = 8,500 psi  
fcl = 7,000 psi  
fpu = 270,000 psi (0.6" φ low lax strands)  
fpbt = 202,300 psi (0.6" φ low lax strands)

**SEISMIC DATA**  
Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec (SD1) = 0.135g  
Design Spectral Acceleration at 0.2 sec (SDS) = 0.233g  
Soil Site Class = D

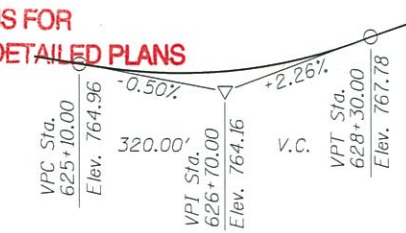
**PROPOSED RAMP F CURVE DATA**

P.I. Sta. = 630+93.16 L = 1041.65'  
Δ = 124°-20'-18" (Rt.) E = 548.14'  
D = 11°-56'-12" S.E. = 8.0%  
R = 480.00' P.C.C. Sta. = 621+83.95  
T = 909.21' P.C.C. Sta. = 632+25.60

**PROPOSED RAMP G CURVE DATA**

P.I. Sta. = 730+86.74 L = 1,736.70'  
Δ = 60°-51'-35" (Rt.) E = 261.20'  
D = 3°-30'-16" S.E. = 6.7%  
R = 1,635' P.C. Sta. = 721+26.34  
T = 960.40' P.T. Sta. = 738+63.05

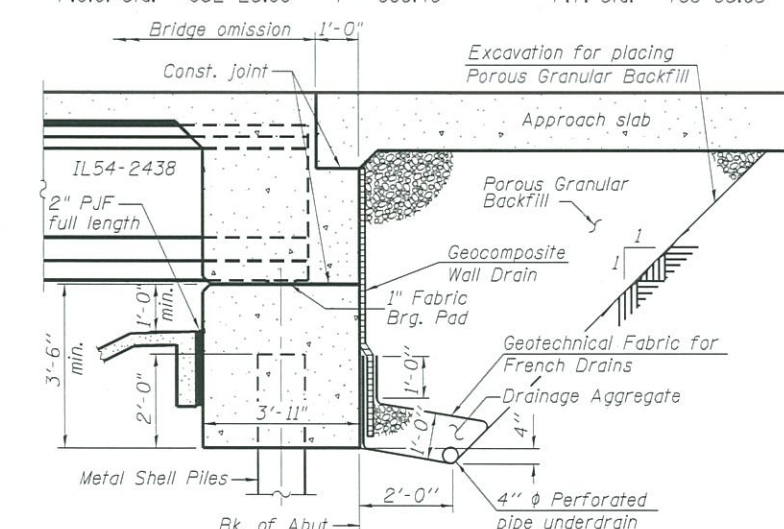
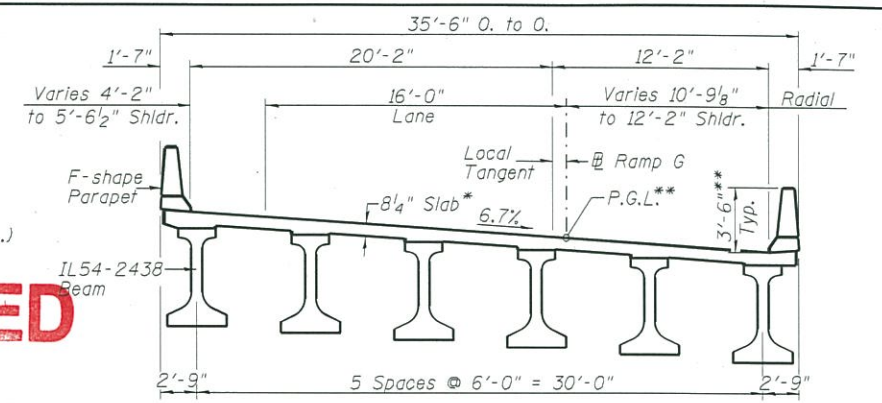
**PROFILE GRADE RAMP F**  
(Along @ Roadway)



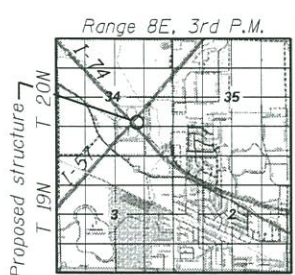
**PROFILE GRADE RAMP G**  
(Along @ Roadway)

Note: The profile grade shows the final elevations after grinding.

**CROSS SECTION**  
(Looking North)



**SECTION THRU INTEGRAL ABUTMENT**



**LOCATION SKETCH**

**GENERAL PLAN**  
RAMP G OVER RAMP F  
F.A.I. RTE. 57/74  
SECTION (10-34-1)HBK  
CHAMPAIGN COUNTY  
STATION 724+26.33  
STRUCTURE NO. 010-1002

	USER NAME = Christopher Whitfield	DESIGNED CJW APR 2017	REVISED	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	SHEET NO. OF SHEETS
	... \DS78897-NEW TSL_Ramp G over F-1.dgn	CHECKED WLB APR 2017	REVISED		
	PLOT SCALE =	DRAWN GLD APR 2017	REVISED		
	PLOT DATE =	CHECKED CJW APR 2017	REVISED		
ILLINOIS FED. AID PROJECT					